

## CLAIMS

### What is claimed is:

1. A debugging method through serial port under system shutdown condition and standby condition, the debugging method is used in a remote system to debug a destination  
5 system, comprises following steps:

a programming step: a power-off debug program and a standby debug program are compiled and burn into a BIOS,

a power supply management providing step: a power supply management of said destination system is set to be performed when the system is shutdown and supply power to  
10 the BIOS and said destination system,

a system connecting step: a cable is used to connect a remote serial port of the remote system and the destination serial port of said destination system,

a monitoring step: a monitoring software is executed in the remote system, the result from the destination serial port of said destination system is read by said monitoring  
15 software, and

a debugging step: the monitoring software is used to check if the output from the destination serial port of said destination system is normal.

2. A debugging method through serial port under system shutdown condition and standby condition of claim 1, wherein said power-off debug program generates either text  
20 data or numerical data.

3. A debugging method through serial port under system shutdown condition and standby condition of claim 1, wherein the power-off debug program is able to generate four digits numerical data.

4. A debugging method through serial port under system shutdown condition and standby condition of claim 1, wherein the standby debug program generates either text data or numerical data.

5 5. A debugging method through serial port under system shutdown condition and standby condition of claim 1, wherein the standby debug program is able to generate four digits numerical data.

6. A debugging method through serial port under system shutdown condition and standby condition of claim 1, further comprises:

10 a switching task mode step: provide a switch to change the output status of the destination serial port.

7. A debugging method through serial port under system shutdown condition and standby condition of claim 6, wherein said switching task mode step will enable the destination serial port to output the debug result of the BIOS when the switch is turned on.

15 8. A debugging method through serial port under system shutdown condition and standby condition of claim 6, wherein said switching task mode step will enable the destination serial port to output regular result of the BIOS when the switch is turned off.

9. A debugging method through serial port under system shutdown condition and standby condition of claim 1, wherein said monitoring software of the monitoring step is a Hyper Terminal software.

20 10. A debugging method through serial port under system shutdown condition and standby condition of claim 5, wherein said power-off debug program starts to debug and the debug result is shown on the remote system when the destination system is shutdown.

11. A debugging method through serial port under system shutdown condition and standby condition of claim 5, wherein said standby debug program starts to debug and the

debug result is shown on the remote system when the destination system is under standby condition.

10022010.122001